

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

ORDER NO. 87-068

WASTE DISCHARGE REQUIREMENTS FOR:

ST. HELENA HOSPITAL AND HEALTH CENTER
DEER PARK
NAPA COUNTY

The California Regional Water Quality Control Board, San Francisco Bay Region, (hereinafter called the Board) finds that:

1. The St. Helena Hospital and Health Center, hereinafter called the Discharger, is located at 650 Sanitarium Road, Deer Park, in Napa County. The Discharger filed a Report of Waste Discharge on May 12, 1987 with the Board for updating its waste discharge permit.
2. The Discharger operates a sewage facility which currently receives wastewater from 133 acute care hospital beds, 32 chemical dependency rehabilitation hospital beds, 34 wellness program beds, 39 Crystal Springs residences, and 75 housing units. The sewage facility consists of a series of seven stabilization ponds (with a total volume of 5.58 million gallons) followed by physical-chemical treatment units (flocculation, settling, and filtration) and disinfection. Disposal of treated effluent is accomplished by pumping to an eight-acre sprayfield. The sewage system has a designed capacity to handle a flow of 40,000 gallons per day (gpd). Current flow is approximately 34,000 gpd. The disposal site is a fenced grassland and is located on a small hilltop across Glass Mountain Road from the treatment plant. Attachment A is a map showing the relative locations of the Hospital, the sewage treatment plant and the sprayfield. Attachment B is a map of the sewage treatment plant. Both Attachments A and B are hereby made a part of this Order.
3. The existing sewage treatment and disposal facility is governed by the waste discharge requirements adopted by the Board on July 24, 1973 in Order No. 73-43.
4. The Board adopted a revised Water Quality Control Plan for the San Francisco Bay Basin (Basin Plan) on July 21, 1982. The Basin Plan contains water quality objectives for the Napa River and its tributaries.
5. The beneficial uses contained in the Basin Plan for the Napa River downstream from the vicinity of St. Helena Hospital and Health Center are:
 - a. Navigation
 - b. Water contact recreation
 - c. Non-contact water recreation
 - d. Warm fresh water habitat
 - e. Cold fresh water habitat

- f. Wild life habitat
 - g. Preservation of rare and endangered species
 - h. Fish migration and spawning
 - i. Municipal and domestic supply
 - j. Agricultural supply
6. The beneficial uses of the Napa Valley groundwaters as set forth in the Basin Plan includes:
- a. Domestic water supply
 - b. Agricultural water supply
7. This project involves the operation of existing privately-owned sewage disposal facilities with negligible or no expansion of use beyond that previously existing and as such is exempt from the provisions of the California Environmental Quality Act in accordance with Title 14, California Administrative Code, Chapter 3, Section 15101.
8. The Board has notified the Discharger and interested agencies and persons of its intent to prescribe waste discharge requirements for the discharge and has provided them with an opportunity for a public hearing and an opportunity to submit their written views and recommendations.
9. The Board, in a public meeting, heard and considered all comments pertaining to the discharge.

IT IS HEREBY ORDERED THAT, the St. Helena Hospital and Health Center, pursuant to the provisions contained in Division 7 of the California Water Code and regulations adopted thereunder, shall comply with the following:

A. Prohibitions

- 1. There shall be no bypass or overflow of untreated or partially treated wastewater to waters of the State from the Discharger's collection, treatment, storage, or disposal facilities.
- 2. The discharge of industrial pollutants or toxic substances into the ponds is prohibited.
- 3. Discharging effluent from the ponds except into one of the disposal fields is prohibited.
- 4. The wastewater shall not be allowed to escape from the spray disposal site onto other non-designated area via airborne spray, surface flow, seepage, or resurfacing after percolation.
- 5. No waste shall be applied to any spray disposal field when it is expected to rain, when the soil is saturated, or when there is runoff from that area. Runoff escaping from spray disposal areas during dry weather is prohibited.
- 6. The mean daily discharge of waste to the ponds shall not exceed

40,000 gallons per day based on the average of three consecutive dry months.

B. Discharge Specifications

General

1. Neither the treatment nor the disposal of wastes shall create a nuisance or pollution as defined in the California Water Code.
2. The discharge of waste shall not degrade the quality of any groundwater suitable for domestic use or cause an increase in any quality parameter that would make groundwater unsuitable for irrigation use.
3. The Discharger shall maintain in good working order and operate as efficiently as possible any facilities or control system installed by the Discharger to achieve compliance with the waste discharge requirements.
4. If pumps are used in the collection system, a high water level alarm shall be installed in each pump station wet well to prevent the occurrence of sewage spill resulting from power failure or mechanical breakdown.

Stabilization Ponds

5. Stabilization ponds shall be fenced to exclude public contact with wastewater and shall be clearly identified with conspicuous warning signs.
6. The ponds shall be adequately protected from erosion, washout, and flooding from a rainfall event having a predicted frequency of once in 100 years.
7. To prevent threat of overflows, a minimum freeboard of 2 feet shall be maintained in the ponds at all times.
8. Waste at the surface of the stabilization ponds shall meet the following quality limits at all times:

In any grab sample:

Dissolved Oxygen	2.0 mg/l minimum
Dissolved Sulfide	0.1 mg/l maximum
pH	6.0 minimum 9.0 maximum

Waste Disposal

9. The waste as discharged to disposal areas shall be at all times an adequately oxidized, disinfected wastewater and shall meet the following quality limits at all times:

5-day 20°C BOD	40.0 mg/l maximum
Dissolved Oxygen	1.0 mg/l minimum
Dissolved Sulfide	0.1 mg/l maximum
Coliform Organisms	The total coliform bacteria for a median of seven consecutive samples shall not exceed a most probable number (MPN) of 23 per 100 milliliters.

10. Wastewater ponding in the disposal site which could cause mosquitoes breeding problem shall be prevented.

C. Provisions

1. The Discharger shall comply with a Self-Monitoring Program as ordered by the Executive Officer.
2. The Discharger shall permit the Board or its authorized representatives in accordance with California Water Code Section 13267(c):
 - (a) Entry upon premises where a regulated facility or activity is located or conducted, or where records are kept under the conditions of this order;
 - (b) Access to and copy at reasonable times any records that must be kept under the conditions of this order;
 - (c) To inspect at reasonable times any facility, equipment (including monitoring and control equipment), practices, or operations regulated or required under this order; and
 - (d) To photograph, sample, and monitor at reasonable times for the purpose of assuring compliance with this order.
3. When an approved public sanitary sewer is within 400 feet, the Discharger shall submit a technical report to the satisfaction of the Executive Officer and time schedule describing how the ponds will be abandoned and connection made to the sanitary sewer.
4. In the event of any change in control or ownership of land or waste discharge facilities presently owned or controlled by the Discharger, the Discharger shall notify the succeeding owner or operator of the existence of this Order by letter, a copy of which shall be forwarded to this Board.
5. The Discharger shall file with the Regional Board a report on waste discharge at least 120 days before making any material change or proposed change in the character, location, or volume of the wastewater.

6. In the event the Discharger is unable to comply with any of the conditions of this Order due to:

- (a) Breakdown of waste treatment equipment;
- (b) Accidents caused by human error or negligence; or
- (c) Other causes such as acts of nature,

the Discharger shall notify the Executive Officer by telephone as soon as he or his agents have knowledge of the incident and confirm this notification in writing within two weeks of the telephone notification. The written notification shall include pertinent information explaining reasons for the non-compliance and shall indicate what steps were taken to correct the problem and the dates thereof, and what steps are being taken to prevent the problem from recurring.

7. The Board will review this Order periodically and may revise the requirements when necessary.
8. After notice and opportunity for a hearing, this Order may be terminated or modified for cause, including, but not limited to:
 - (a) Violation of any term or condition contained in this Order;
 - (b) Obtaining this Order by misrepresentation, or failure to disclose fully all relevant facts;
 - (c) Endangerment to public health or environment that can only be regulated to acceptable levels by order modification or termination; and
 - (d) Any condition that requires either a temporary or permanent reduction or elimination of the authorized discharge.
9. In reviewing compliance with Prohibition A.1. and Discharge Specifications B.6. and B.7. of this Order, the Board will take special note of the difficulties encountered in achieving compliance during entire wet seasons having a rainfall recurrence interval of greater than once in ten years.
10. The waste discharge requirements prescribed by this Order supersedes the requirements prescribed by the Board's Order No. 73-43. Order No. 73-43 is hereby rescinded.
11. This Order is subject to Board review and updating, as necessary, to comply with changing State and Federal laws, regulations, policies, or guidelines; changes in the Regional Board Basin Plan; or changes in the discharge characteristics, in five year increments from the effective date of this Order.

I, Roger B. James, Executive Officer, do hereby certify the foregoing is a full, true, and correct copy of an Order adopted by the California

Regional Water Quality Control Board, San Francisco Bay Region, on
June 17, 1987.

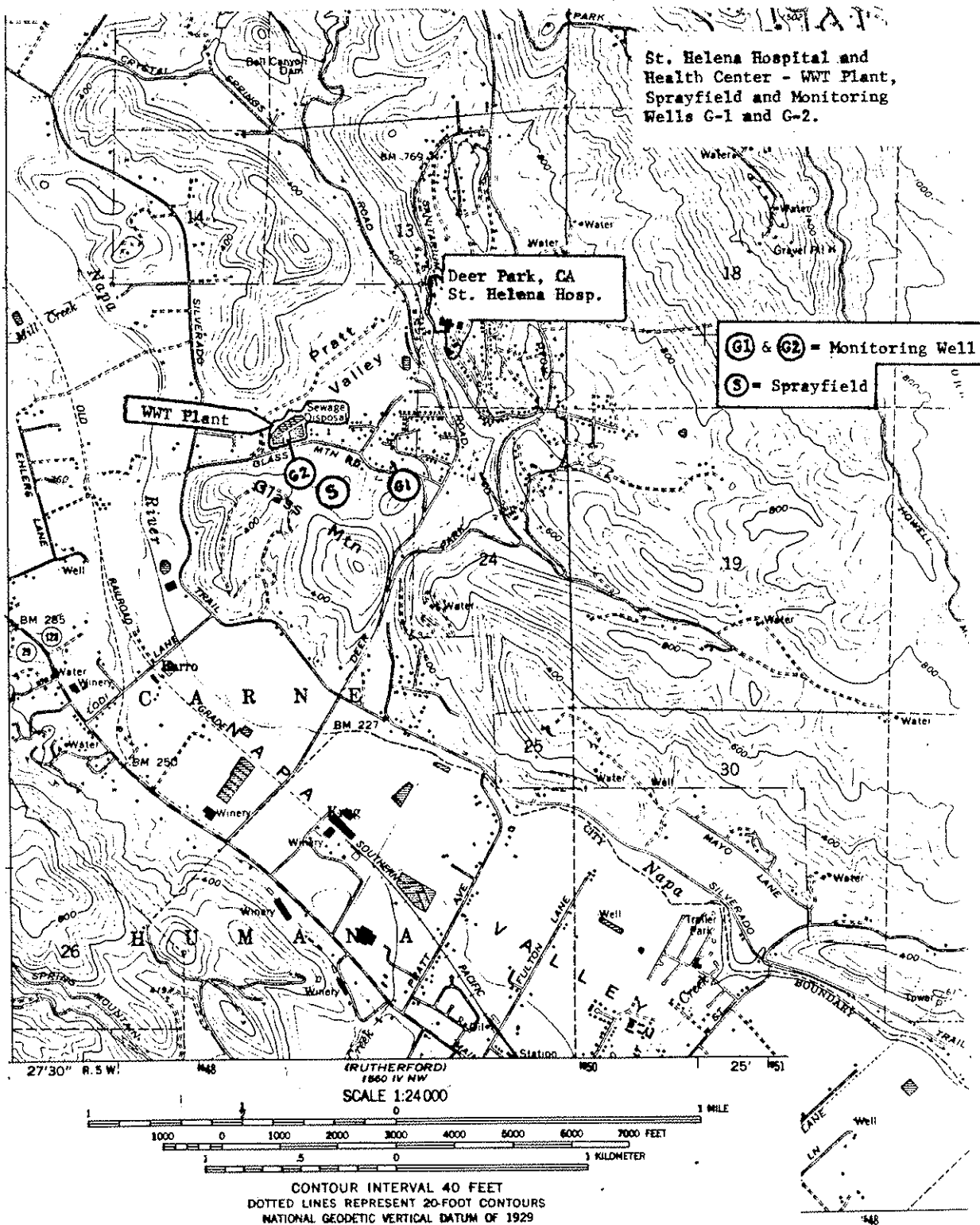
A handwritten signature in cursive script, appearing to read "Roger B. James", written in dark ink.

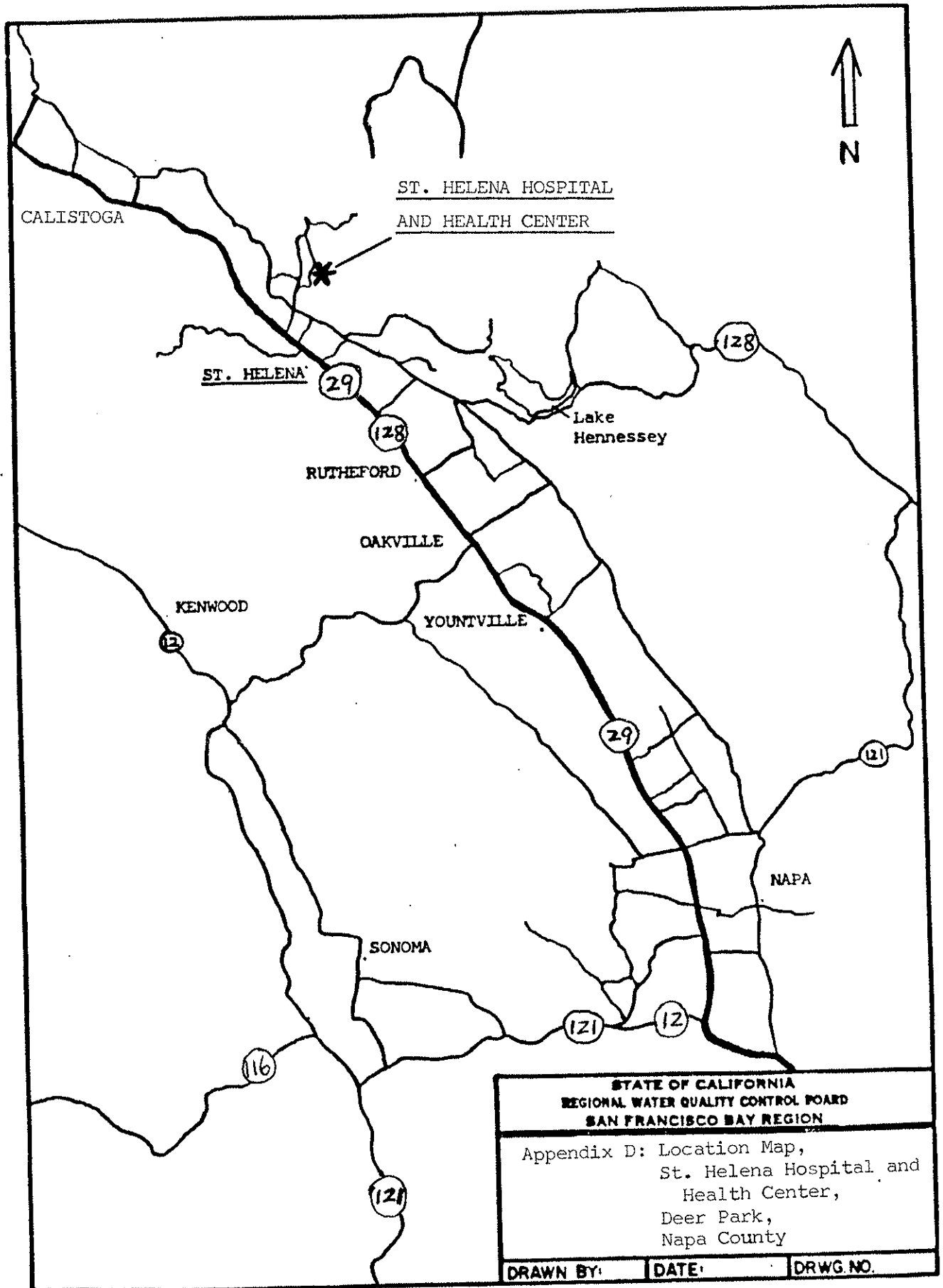
ROGER B. JAMES
Executive Officer

Attachments:

Location Map

Self-Monitoring Program





CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

FINAL
SELF-MONITORING PROGRAM
FOR

ST. HELENA HOSPITAL AND HEALTH CENTER

DEER PARK

NAPA COUNTY

ORDER NO. 87-068

CONSISTS OF

PART A

PART A

ST. HELENA HOSPITAL AND HEALTH CENTER

I. GENERAL

Reporting responsibilities of waste dischargers are specified in Sections 13225(a), 13267(b), 13268, 13383, and 13387(b) of the California Water Code and this Regional Board's Resolution No. 73-16.

The principal purposes of a monitoring program by a waste discharger, also referred to as a self-monitoring program, are:

1. To document compliance with waste discharge requirements and prohibitions established by the Regional Board.
2. To facilitate self-policing by the waste discharger in the prevention and abatement of pollution arising from waste discharge.

II. SAMPLING AND ANALYTICAL METHODS

Sample collection, storage, and analyses shall be performed according to the latest edition of "Standard Methods for the Examination of Water and Wastewater" prepared and published jointly by the American Public Health Association, American Water Works Association, and Water Pollution Control Federation, or other methods approved and specified by the Executive Officer of this Regional Board.

Water and waste analyses shall be performed by a laboratory approved for these analyses by the State Department of Health or a laboratory approved by the Executive Officer. The director of the laboratory whose name appears on the certification shall supervise all analytical work in his laboratory and shall sign all reports of such work submitted to the Regional Board.

All monitoring instruments and equipment shall be properly calibrated and maintained to ensure accuracy of measurements.

III. DEFINITION OF TERMS

1. A grab sample is defined as an individual sample collected in fewer than 15 minutes.

2. Standard Observations

- a. Land Retention or Pond Area

This applies both to liquid and solid wastes confined or unconfined.

- (1) Determine height of the freeboard at lowest point of dikes confining liquid wastes.

- (2) Evidence of leaching liquid from area of confinement and estimated size of affected area. (Show affected area on a sketch.)
- (3) Odor: presence or absence, characterization, source, and distance of travel.
- (4) Estimated number of waterfowl and other water-associated birds in the pond area and vicinity.

b. Periphery of Spray Disposal Site

- (1) Evidence of wastewater escaping the spray disposal site through surface runoff or airborne spray. (Show affected area on a sketch.)
- (2) Odor: presence or absence, characterization, source, and distance of travel.
- (3) Evidence of surfacing or ponding of wastewater as well as mosquitoes breeding within the spray disposal area due to excessive spray.
- (4) Warning signs or notices adequately posted to inform public of the disposal of wastewater.

IV. DESCRIPTION OF SAMPLING STATIONS AND SCHEDULE OF SAMPLING, ANALYSIS AND OBSERVATIONS

1. DESCRIPTION OF SAMPLING STATIONS

<u>Station</u>	<u>Description</u>
<u>A. INFLUENT</u>	
A-001	At any point in the treatment facilities headworks at which all waste tributary to the system is present and preceding any phase of treatment.
<u>B. EFFLUENT</u>	
E-001	At any point in the effluent from the treatment facilities between the point of land disposal and the point at which all wastes tributary to the land disposal are present. (May be the same location as E-001-D.)
E-001-D	At any point in the effluent from the disinfection facility at which all waste streams are

present and adequate contact with disinfectant is assured.

C. STABILIZATION PONDS

<u>Station</u>	<u>Description</u>
P-1, P-3, P-5 and P-7	Located at a point in pond No.1, No.3, No.5, and No.7, respectively, within one foot of the water surface and no less than two feet from the bank, representative of the wastewater.

c. LAND OBSERVATION

<u>Station</u>	<u>Description</u>
P-1 thru P-'n'	Located at ends and midpoints of the perimeter levees of all the stabilization ponds.
I-1 thru I-'n'	Located at points spaced equidistantly around the periphery of the spray irrigation area. Points shall be separated by not more than 100 feet. A sketch showing the stations shall be submitted with the first monitoring report and subsequent self-monitoring report when station location is changed or a violation is noted.

d. GROUNDWATER

<u>Station</u>	<u>Description</u>
G-1	Located along the Glass Mountain Road, approximately 2,000 feet to the east of the treatment plant.
G-2	At an existing well at the treatment plant, located between pond No.7 and Cannon Creek.

2. SCHEDULE OF SAMPLING, ANALYSIS, AND OBSERVATIONS

The Discharger is required to perform observations, sampling, and analyses according to the schedule given in Table 1. (Attachment A)

V. REPORTS TO BE FILED WITH THE REGIONAL BOARD

1. Violation of Requirements:

In the event the Discharger is unable to comply with the conditions of the water reclamation requirements and prohibitions due to:

- (a) maintenance work, power failure, or breakdown of waste treatment equipment, or
- (b) accidents caused by human error or negligence, or
- (c) other causes such as acts of nature,

the Discharger shall notify the Regional Board office by telephone as soon as he or his agents have knowledge of the incident and confirm this notification in writing within two weeks of the telephone notification. The written report shall include pertinent information explaining reasons for the non-compliance and shall indicate what steps were taken to prevent the problems from recurring.

2. Self-Monitoring Reports

Written reports shall be filed regularly for each calendar month by the fifteenth day of the following month. The reports shall be comprised of the following:

a. Letter of Transmittal:

A letter transmitting self-monitoring reports should accompany each report. Such a letter shall include a discussion of requirement violations found during the past month and actions taken or planned for correcting violations, such as operation modifications and/or facilities expansion. If the Discharger has previously submitted a detailed time schedule for correcting requirement violations, a reference to the correspondence transmitting such schedule will be satisfactory. The letter shall contain a statement by the official, under penalty of perjury, that to the best of the signer's knowledge the report is true and correct.

b. Results of Analyses and Observations

Tabulations of the results from each required analysis and/or observations specified in Table 1 by date, time, type of sample, and station.

c. List of Approved Analyses

- (1) Listing of analyses for which the Discharger is approved by the State Department of Health.
- (2) List of analyses performed for the Discharger by another approved laboratory (and copies of reports signed by the laboratory director of that laboratory shall also be submitted as part of the report).

I, Roger B. James, Executive Officer, do hereby certify that the foregoing Self-Monitoring Program:

1. Has been developed in accordance with the procedure set forth in this Regional Board's Resolution No. 73-16 in order to obtain data and document compliance with the Waste Discharge Requirements established in Regional Board Order No. 87-068.
2. Is effective on the date shown below.
3. May be reviewed at any time subsequent to the effective date upon written notice from the Executive Officer or request from the Discharger, and revisions will be ordered by the Executive Officer.


ROGER B. JAMES
Executive Officer

Effective Date: June 17, 1987

Attachments:

- A. Table I
- B. Checklist for Standard Observation at spray disposal site

ATTACHMENT A

TABLE 1

SCHEDULE FOR SAMPLING, MEASUREMENTS, AND ANALYSES
(St. Helena Hospital and Health Center)

SAMPLING STATIONS	A-1	E-001	E-001 -D	all P	all L	all I	all G
Type of Samples	G	G	G	G	O	O	G
Flow Rate, (MGD)	D	D					
5-day BOD, (mg/l)	2/M	2/M					
Suspended Solids, (mg/l)	2/M	2/M					
pH, (unit)		2/M		M			
Dissolved Oxygen, (mg/l)		W		2/M			
Dissolved Sulfides, (mg/l), (1)		W		2/M			
Settleable Matter, (ml/l-hr)		2/M					
Chlorine Residual, (mg/l)			5/W				
Total Coliform, (MPN/100 ml)			5/W				Q
Total Dissolved Solids, (mg/l)							Q
Nitrate Nitrogen, (mg/l)							Q
Applicable Standard Observations				W	W	W ⁽²⁾	

LEGEND FOR TABLE 1

Type of Sample

G= Grab sample,
O= Observations,

Sampling Frequency

D= Daily,
W= Once per week,
2/M= Twice per month with at
least 10 days between
sampling,
M= Monthly,
Q= Quarterly (every 3 months),
5/W= Daily, five days per week,

Notes:

- (1). Analyze for this item only when Dissolved Oxygen is below 2.0 mg/l.

- (2). During the spray disposal period, the discharger shall perform standard observations and record the findings on the attached checklist (Attachment B). The checklist shall be attached to the monthly self-monitoring report and submitted to the Board for review. The observations must be made during the periods when spray disposal is in progress.

ATTACHMENT B

Checklist for Standard Observation at Spray Disposal Site

1. Name of Discharger: St. Helena Hospital and Health Center
2. Month and Year: _____
3. Circle dates that wastewater are applied on land: 1 2 3 4 5 6 7 8 9
10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
4. Total gallons used for the month: _____
5. Required weekly observations: (Fill in the date of the inspection and write "yes" or "no" for each observation.)

Date and Time					
Escape of Reclaimed Wastewater from the Disposal Site through Surface Flow or Airborne Spray					
Wastewater Used on Unauthorized Areas					
Odor from Wastewater					
Mosquitoes Breeding Resulted from Wastewater Ponding					
Warning Signs Properly Posted					
Public Contact with Wastewater					

If any of the observations were yes, a written report containing the following information shall be submitted:

- (1) State time when noted violation(s) was observed and, if appropriate, show its location on a map.
- (2) Explain cause and extent of violation(s) observed.
- (3) Describe corrective action taken and the dates compliance was achieved and spray disposal was resumed.

6. Certification:

I certify that the information in this checklist, to the best of my knowledge, is true and correct.

Signature of Inspector Date